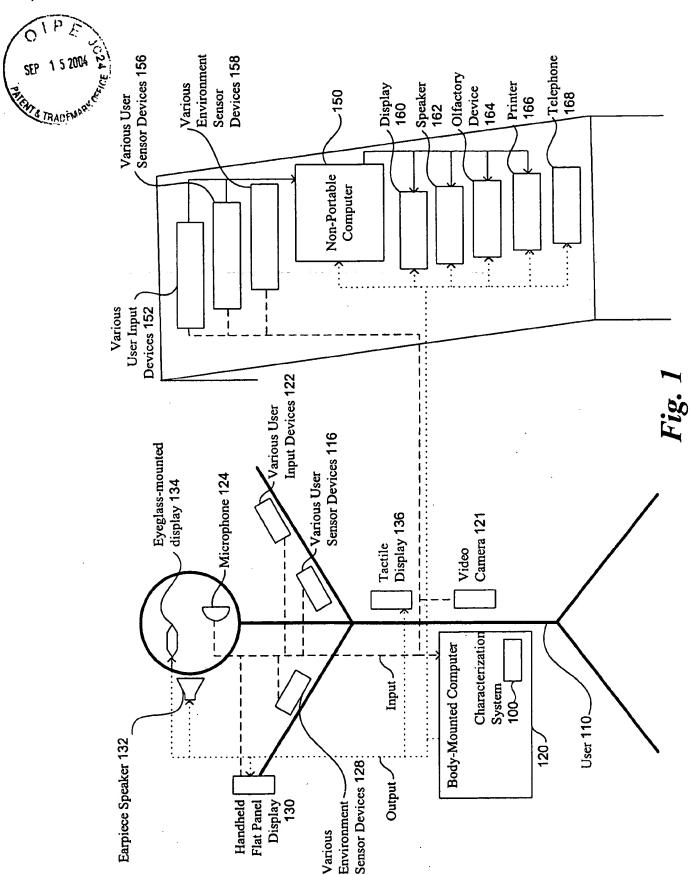
Put

Serial No. 09/724,777 Dott No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.

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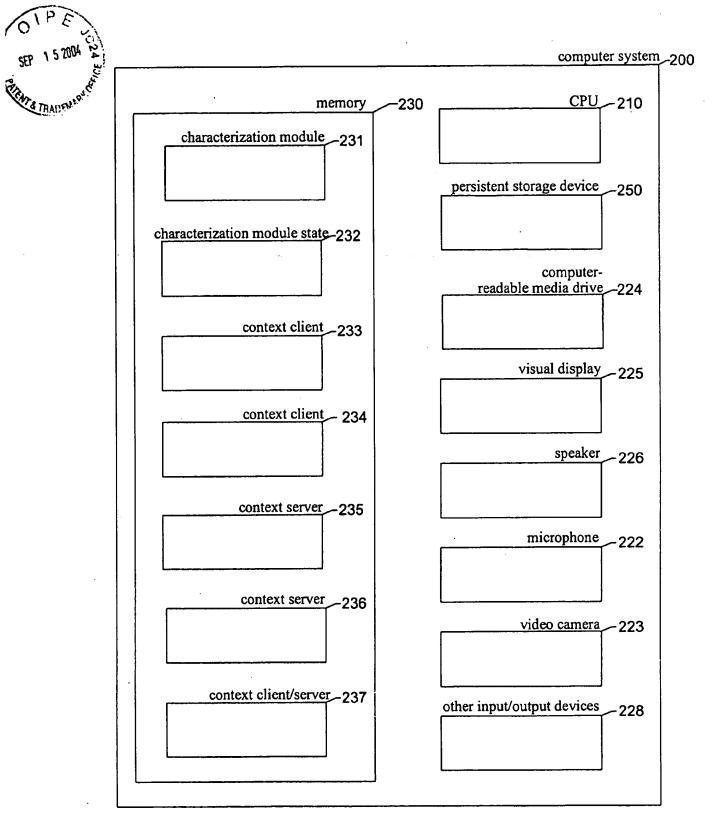
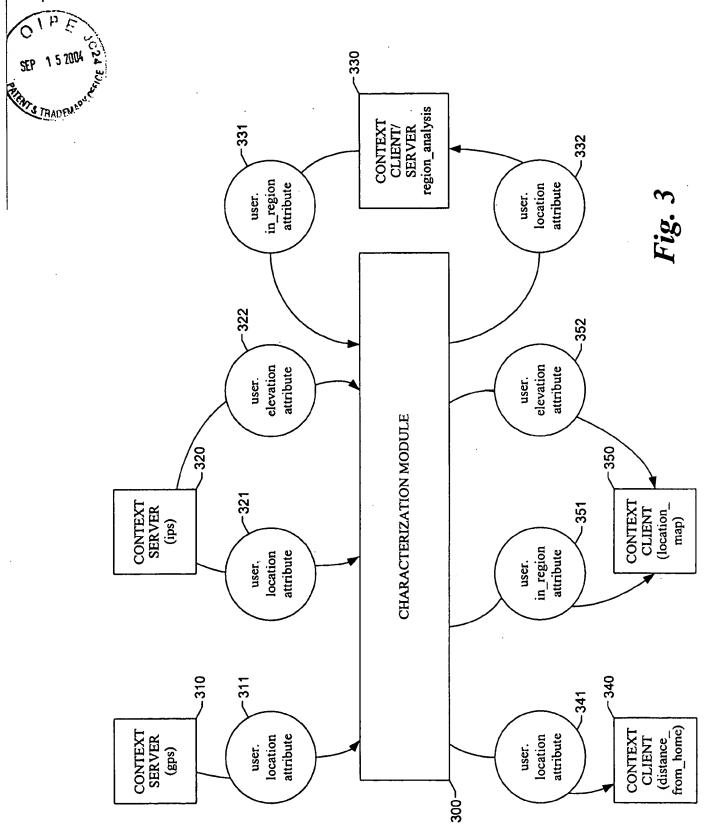


Fig. 2

Serial No. 09/724,777 Det No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.

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			•		context server table 400	7 400
	context server name	version	installation date	filename	request handler	
104	401 gps	1	2/10/2000	gps.exe	(reference)	
402—ips	ips	1	2/21/2000	ips.exe	(reference)	
403/	403 location_region_analysis	1	2/10/2000	l_r_a.exe	(reference)	
	411	7	-412	414	415	15
			Fig. 1			

500						attribut	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
501	user.location	sdā	47° 38.73° N, 122° 18.43° W	.00°.09	13:11:04.023 2/22/2000	degrees/minutes	2
505	user.location	·sdī	47° 38.745' N, 122° 18.424' W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
503	user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	1
504	user.in_region	location_region_ analysis	none	none	ouou	none	0
	-511	512	-513	-514	-515	- 516	_517

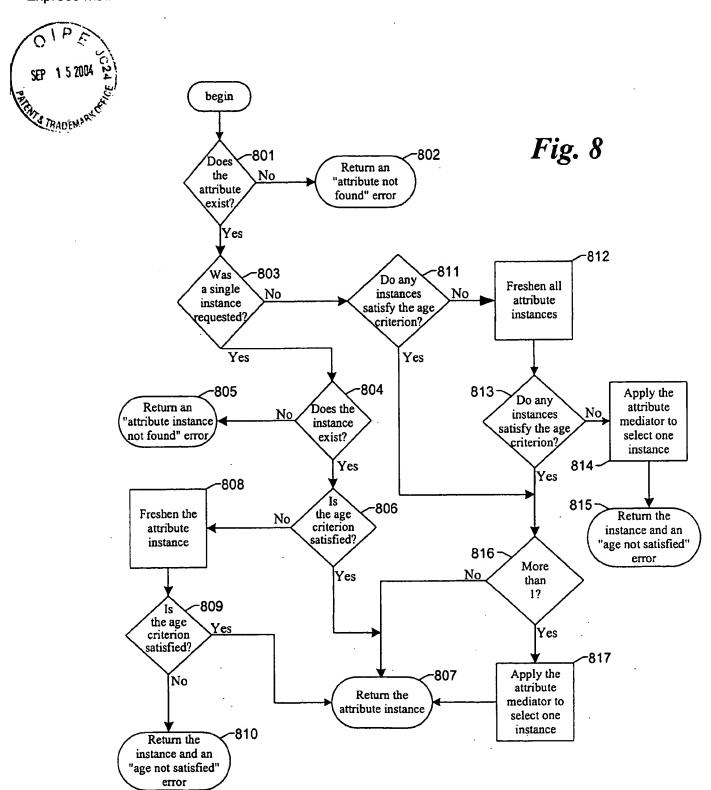
Serial No. 09/724,777 Deet No. 890057.419C1

Inventor(s): Kenneth H. Abbott et al.



ر 900						context	context client table
	context clent name	ə		message handler	ller		
601	601_location_map			(reference)			
602~	602_distance_from_home	me		(reference)	·		·
603	region_analysis			(reference)			
		-611				_612	
	.*		Fi	Fig. 6		}	
7007						attribul	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
. 701	user.location	sda	47° 38.73° N, 122° 18.43° W	.60°.0	13:11:04.023 2/22/2000	degrees/minutes	2
705	user.location	sdı	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
703~	user.elevation	sdi	22	5:	13:11:01.118 2/22/2000	meters	·I
704	user.in_region	location_region_ analysis	none	none	none	none	1
	1117	712	_713	714	715	716	. 717
			H	Fig. 7			

Serial No. 09/724,777 Domet No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al. Express Mail No. EV447226175US "REPLACEMENT SHEET"



Serial No. 09/724,777 Do t No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



906						attribut	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
901	user.location	, sda	47° 38.73° N, 122° 18.43° W	.09°	13:11:04.023 2/22/2000	degrees/minutes	2
905	user.location	. sdi	47° 38.745° N, 122° 18.424° W	0° .021°	13:11:01.118 2/22/2000	degrees/minutes	2
903/	user.elevation	sdi	22.25	.5	13:11:06.565 2/22/2000	meters	1
904	user.in_region	region_analysis	none	none	none	none	-
	-911	912	-913	914	915	916	216
			F	Fig. 9			

condition table -1016 logical operator II comparison value -1015 TRUE second logical **~1014** parameter **L1013** first logical parameter user.in\_region context client name **~1012** region\_analysis condition name \_1011 in\_region\_true 1661

Fig. 10

### Serial No. 09/724,777 Dd et No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al. Express Mail No. EV447226175US "REPLACEMENT SHEET"



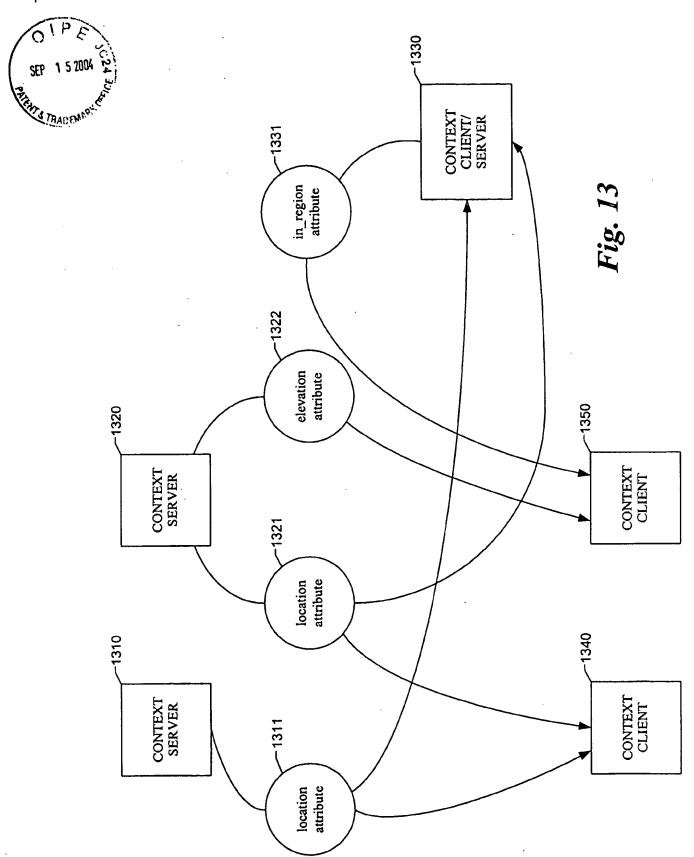
71118	7111	5 1116	11115	11114	<b>/1113</b>	-1112	7111	
ou	(reference)	13:11:29.101 2/22/2000	30	TRUE or FALSE	in_region_true   TRUE or   30	region_analysis	region_boundary_ region_analysis	101
stopped	condition name behavior frequency condition last trigger handler stopped evaluated reference	condition last evaluated	frequency	behavior	condition name	-	condition monitor	
condition monitor table	our morning			•	•••	context client name		•

Fig. 11

<u>∞</u>	1218	_1217	1216	1215	1214	_1213	1212	1211	
	yes	(reference)	13:11:59.101 (reference) 2/22/2000	30	TRUE or FALSE	in_region_true   TRUE or   30   FALSE	region_analysis	region_boundary_	1201
	stopped	condition name behavior frequency condition last trigger handler evaluated reference	condition last evaluated	frequency	behavior	condition name	condition monitor context client name name	condition monitor name	
	nitor table	condition monitor table							1200 ~

Fig. 12

Serial No. 09/724,777 Do to No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.
Express Mail No. EV447226175US "REPLACEMENT SHEET"



Serial No. 09/724,777 Det No. 890057.419C1
Inventor(s): Kenneth H. Abbott et al.
Express Mail No. EV447226175US "REPLACEMENT SHEET"



	attribute request table
attribute name	context client name
user.location	distance_from_home
user.in_region	location_map
user.location [gps]	location_region_analysis
user.elevation	location_map
1411	1412

Fig. 14

## Serial No. 09/724,777 Deet No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



```
Platform. (continued)
User.
                                                         CPU.
    Desired_privacy_level
                                                               Load
    Interruptibility
                                                                                       Fig. 15
    Speed
                                                               Speed
    Direction
                                                          Memory.
                                                               Total_capacity
    Acceleration
                                                               Used
    Availability.
                                                          Storage.
         Cognitive availability
                                                               Total_capacity
         Tactile availability
                                                               Used
         Manual availability
                                                          Connectivity.
         Visual availability
         Oral availability
                                                               Connection_status
         Auditory availability
                                                               Connection_speed
                                                               Connection type/device
    Proximity.<Item or place name>
                                                               Connection_activity
    Mood.
                                                          Power.
         Happiness
                                                               Power_source
         Sadness
                                                               Power_level
         Anger
                                                     Environment.
         Frustration
                                                          People.
         Confusion
                                                               Nearest
    Activity.
         Driving
                                                               Number_present
                                                               Number close
         Eating
                                                          Local.
         Running
                                                               Time
         Sleeping
                                                               Date
         Talking
                                                               Temperature
         Typing
                                                               Pressure
         Walking
                                                               Wind speed
    Location.
                                                               Wind_direction
         Place name
                                                               Absolute_humidity
         Latitude
                                                               High forecast temperature
         Longitude
                                                               Low_forecast_temperature
         Altitude
                                                               People present
         Room
                                                               Ambient noise level
         Floor
                                                               Ambient light level
         Building
         Address
                                                               Days. < previous or future>.
                                                                       High_temperature
         Street
                                                                       Low_temperature
         City
                                                                       Precipitation type
         County
                                                                       Precipitation_amount
         State
                                                          Place. <place name>. (same as Environment. Local)
         Country
                                                      Application.
          Postal Code
                                                          Mail.
    Destination. (same as User.Location.)
    Physiology.
                                                               Available
                                                               New_messages_waiting
         Pulse
                                                               Messages waiting to be sent
          Body_temperature
                                                          Phone.
          Blood_pressure
                                                               Available
          Respiration
                                                               In use
Person.<name or ID>. (same as User.)
                                                               On/off
Platform.
                                                               Notification_mechanism
    UI.
          Oral_input_device_availability
                                                               Call_incoming
                                                               Caller ID
          Manual input_device_availability
                                                          Sound_recorder.
          Tactile output device availability
                                                               Available
          Visual output device availability
                                                                Recording
          Auditory_output_device_availability
```



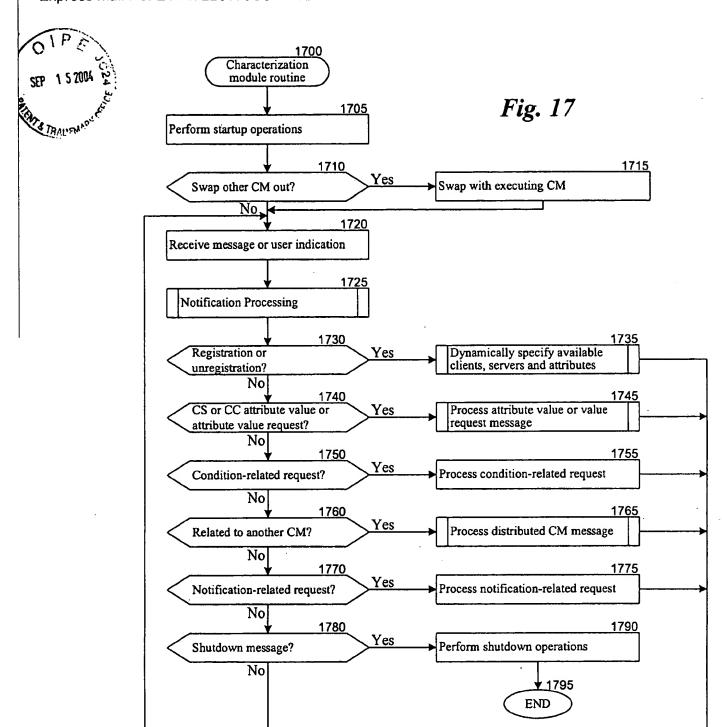
- 1) User Setting
  - a) Mental Context
    - i) Meaning
    - ii) Cognition
      - (1) Divided User Attention
      - (2) Task Switching
      - (3) Background Awareness
    - iii) Solitude
    - iv) Privacy
      - (1) Desired Privacy
      - (2) Perceived Privacy
    - v) Social Context
    - vi) Affect
  - b) Physical Situation
    - i) Body
      - (1) Biometrics
      - (2) Posture
      - (3) Motion
      - (4) Physical Encumberment
        - (a) Senses
          - (i) Eyes
          - (ii) Ears
          - (iii) Tactile
          - (iv) Hands
          - (v) Nose
          - (vi) Tongue
        - (b) Workload demands/effects
        - (c) Interaction with computer devices
        - (d) Interaction with people
        - (e) Physical Health
    - ii) Environment
      - (1) Time/Space
      - (2) Objects
      - (3) Persons
        - (a) Audience/Privacy Availability
          - (i) Scope of Disclosure
          - (ii) Hardware affinity for privacy
          - (iii) Privacy Indicator for User
          - (iv) Privacy Indicator for **Public**
          - (v) Watching Indicator
          - (vi) Being Observed Indicator
      - (4) Ambient Interference
        - (a) Visual
        - (b) Audio
        - (c) Tactile

#### 2) Computer

- a) Power
- b) Configuration
  - i) User Input Systems
    - (1) Hand/Haptic
      - (a) Keyboard/Keystrokes

Fig. 16

- (2) Voice/Audio
- (3) Eye Tracking
- (4) Cursors
  - (a) Axis
  - (b) Resolution
    - (i) Selection
    - (ii) Invocation
  - (c) Accelerators
- ii) Output Systems
  - (1) Visual
    - (a) Resolution
  - (2) Audio
    - (a) Public/Private
  - (3) Haptic
- iii) External Resources
  - (1) I/O devices
  - (2) Connectivity
- c) Data
  - Quantity/State
  - ii) Urgency/Importance
    - (1) Use of Prominence
  - iii) Modality
  - iv) Sensitivity/Purpose
    - (1) Privacy Issues
    - (2) Use of Association
    - (3) Use of Safety
  - v) Source/Ownership
    - (1) Types
      - (a) User generated
      - (b) Other computers or people
      - (c) Sensor
      - (d) PC State
    - (2) Use of Association



1782

1786

Other supported operation?

Send error message

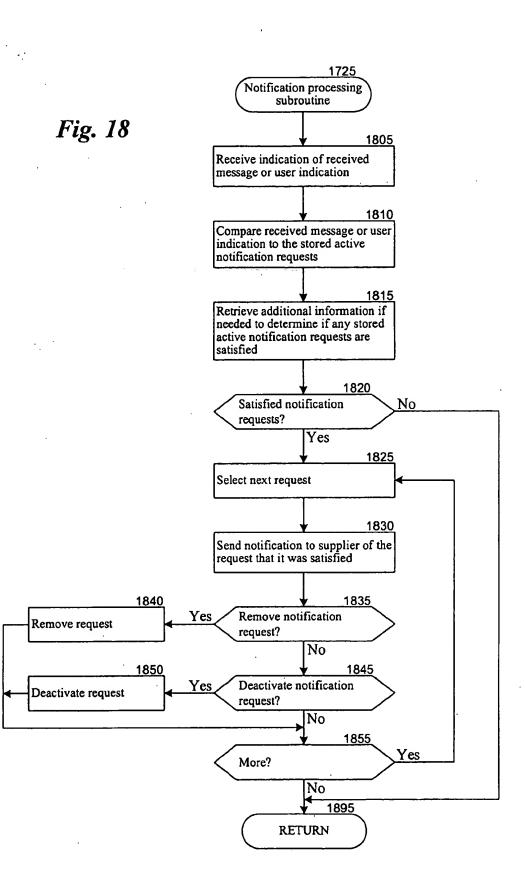
Yes

Perform other operation

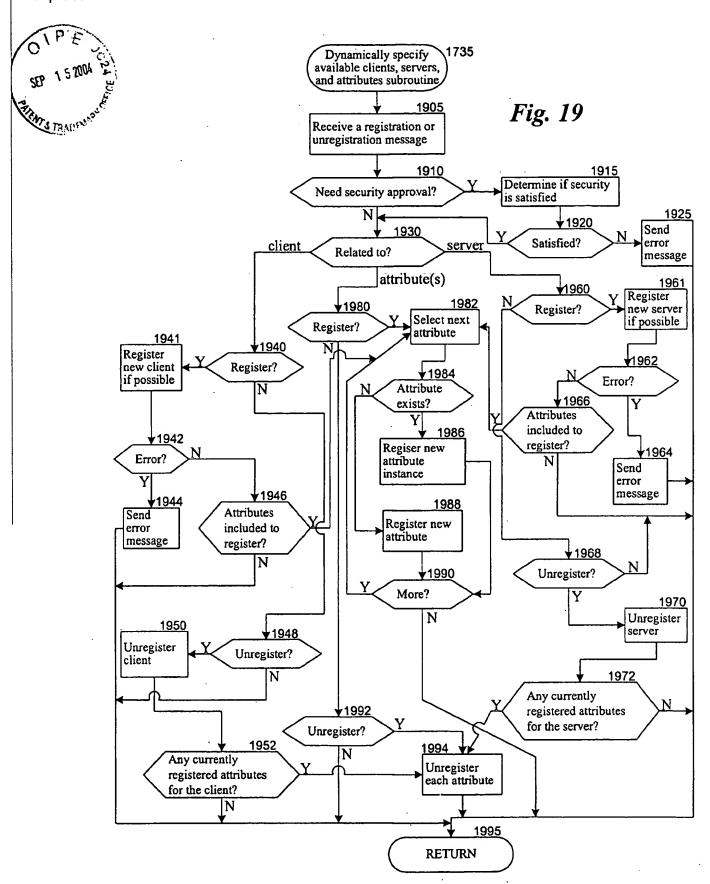
1784

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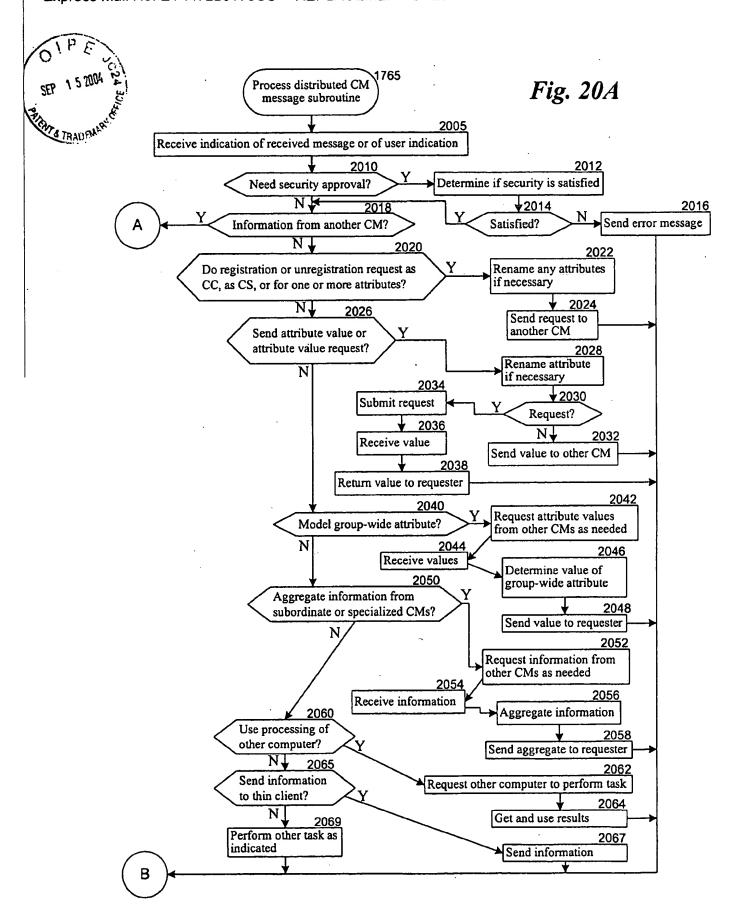




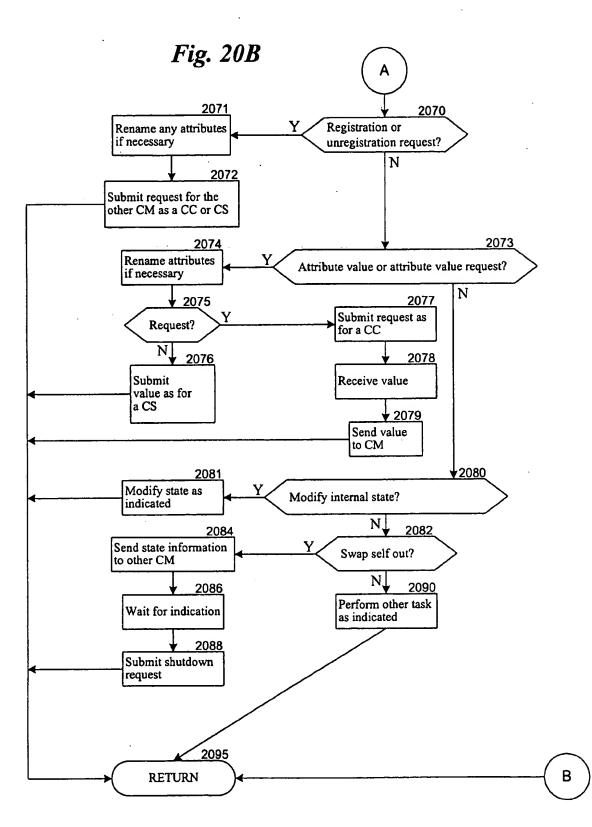
Serial No. 09/724,777 Det No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



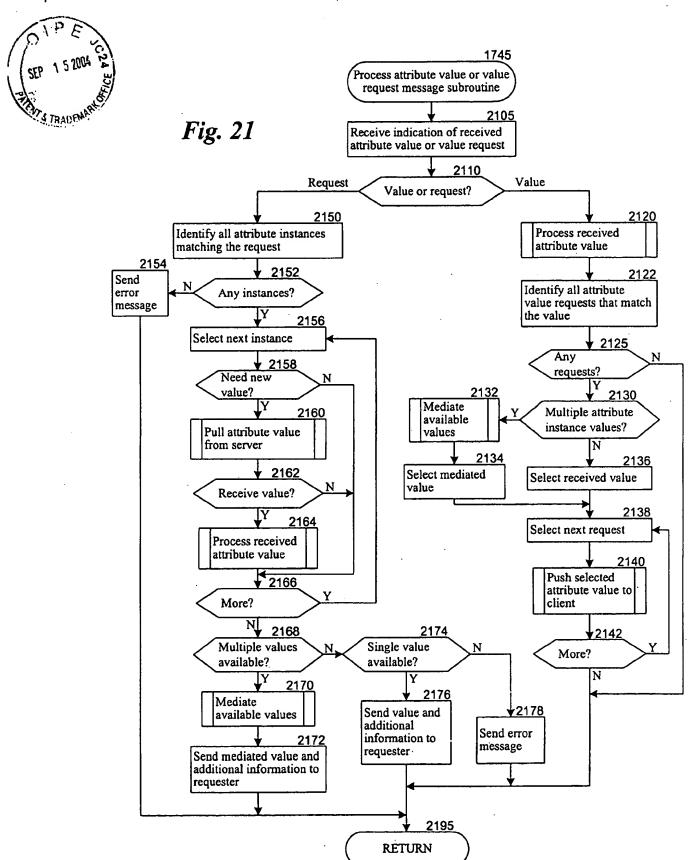
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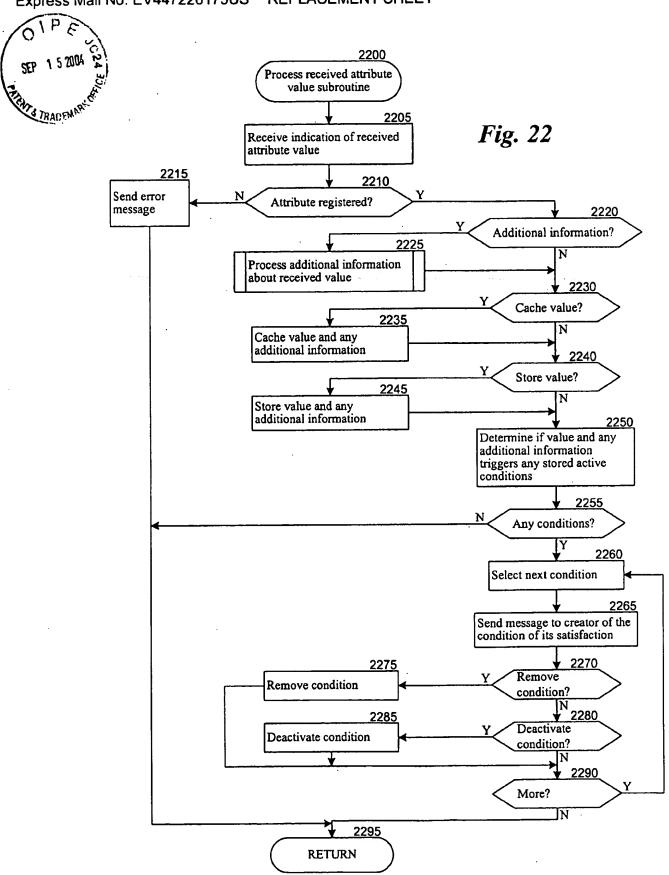




Serial No. 09/724,777 Detet No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.

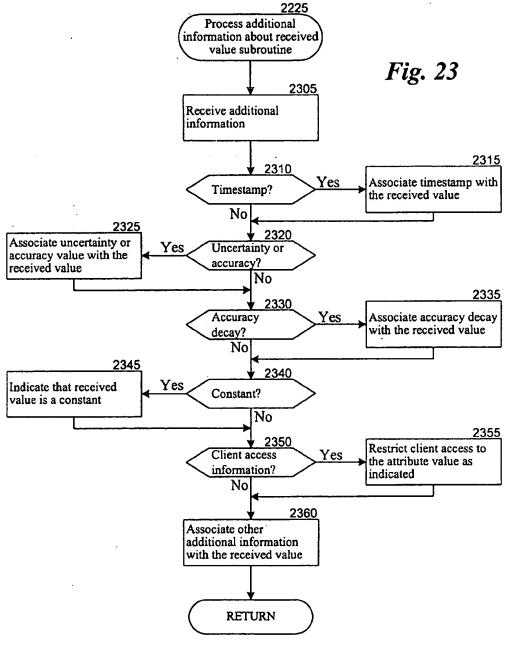


Serial No. 09/724,777 Det No. 890057.419C1 Inventor(s): Kenneth H. Abbott et al.



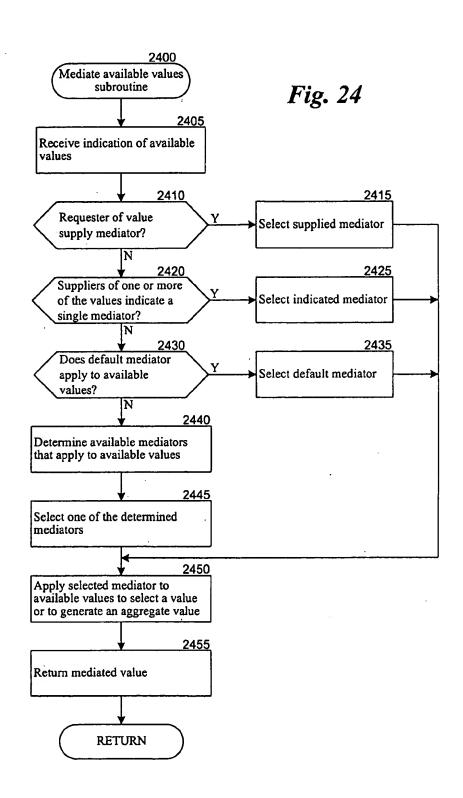
Serial No. 09/724,777 Det No. 890057.419C1
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Express Mail No. EV447226175US "REPLACEMENT SHEET"





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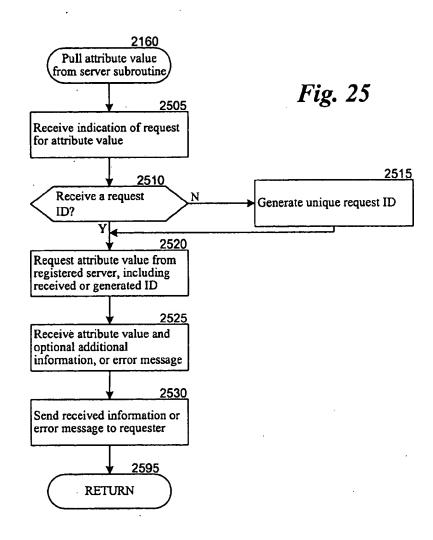




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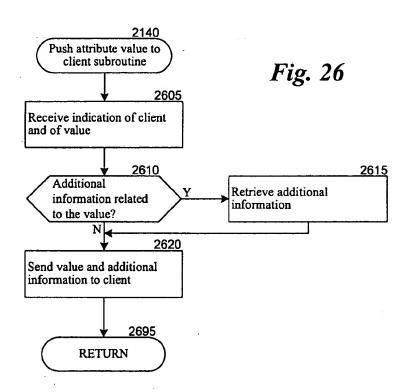




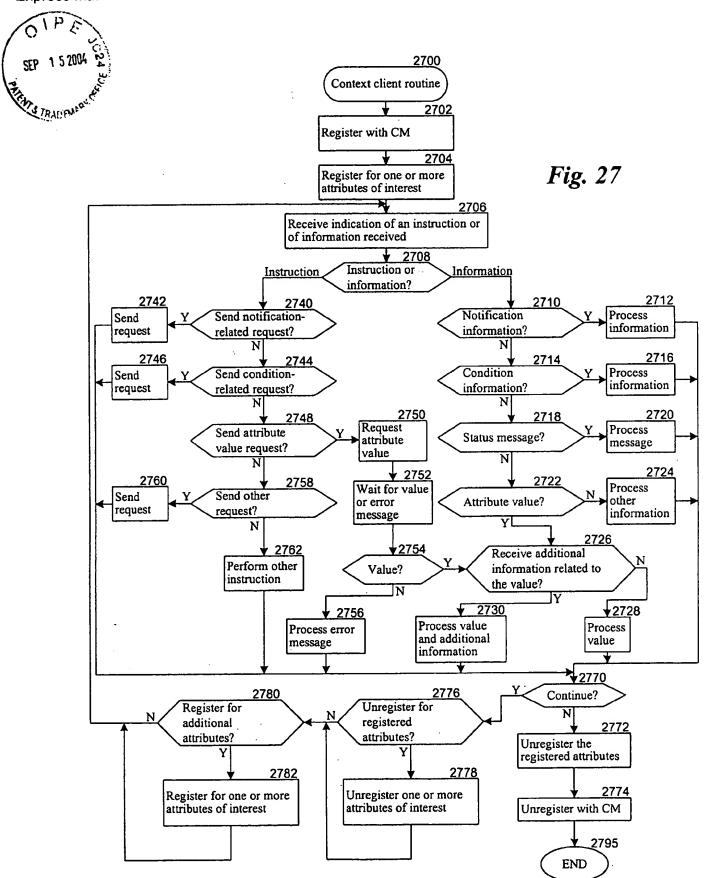
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